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# NOTICE OF ALLOWANCE AND FEE(S) DUE

23432 7590 11/16/2009

COOPER & DUNHAM, LLP 30 Rockefeller Plaza 20th Floor NEW YORK NY 10112 EXAMINER

LARYEA, LAWRENCE N

ART UNIT PAPER NUMBER

3768 DATE MAILED: 11/16/2009

 APPLICATION NO.
 FILING DATE
 FIRST NAMED INVENTOR
 ATTORNICY DOCKIET NO.
 CONFRMATION NO.

 10/521,978
 01/21/2005
 Akiko Shinohara
 1141/73755
 6910

TITLE OF INVENTION: MEDICAL IMAGE DIAGNOSIS APPARATUS

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	02/16/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and I/2 the ISSUE FIEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

### PART B - FEE(S) TRANSMITTAL

# Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

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INSTRUCTIONS: This appropriate. All further indicated unless correcte maintenance fee notificat	form should be used I correspondence including d below or directed off tions.	or tran	smitting the ISSU Patent, advance or in Block 1, by (a							
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10/521,978	01/21/2005			Akiko Shinohara				I 141/73755		6910
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nonprovisional	NO		\$1510	\$300	_	\$0	\$1810			02/16/2010
EXAM	INER		ART UNIT	CLASS-SUBCLASS						
LARYEA, LA	WRENCE N		3768	600-411000						
"Fee Address" indi PTO/SB/47; Rev 03-0 Number is required.  3. ASSIGNEE NAME A	ondence address (or Cha 3/122) attached. ication (or "Fee Address 2 or more recent) attach ND RESIDENCE DAT. ess an assignee is ident h in 37 CFR 3.11. Comp	nge of "Indicated. Use	Correspondence ation form e of a Customer		o to 3 native ngle i or ago uttorn be pr type type e pate an as	registered patently, firm (having as a ent) and the name eys or agents. If r inted. ) ent. If an assignt signment.	memb es of u no nan	er a 2 p to e is 3 lentified below, the de		it has been filed for
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PTOL-85 (Rev. 08/07) Approved for use through 08/31/2010.



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#### UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.			
10/521,978	01/21/2005	Akiko Shinohara	1141/73755	6910			
23432 7	590 11/16/2009		EXAMINER				
COOPER & DUNHAM, LLP			LARYEA, LAWRENCE N				
30 Rockefeller Pla	za		ART UNIT	PAPER NUMBER			
20th Floor NEW YORK, NY	10112	3768 DATE MAILED: 11/16/2009					

# Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 262 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 262 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

#### Application No. Applicant(s) 10/521 978 SHINOHARA ET AL. Notice of Allowability Examiner Art Unit LAWRENCE N. LARYEA 3768 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative

- of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.
- This communication is responsive to amendment filed 06/24/2009.
- The allowed claim(s) is/are 1-16.
- 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - b) ☐ Some\* c) ☐ None of the:
    - 1. A Certified copies of the priority documents have been received.
    - 2. Certified copies of the priority documents have been received in Application No.
      - 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
  - \* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

- A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
- CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
  - (a) Including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
    - 1) hereto or 2) to Paper No./Mail Date
  - (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6. 

DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

## Attachment(s)

- 1. | Notice of References Cited (PTO-892)
- 2. Notice of Draftperson's Patent Drawing Review (PTO-948)
- Information Disclosure Statements (PTO/SB/08). Paper No./Mail Date
- 4. T Examiner's Comment Regarding Requirement for Deposit of Biological Material
- 5. Notice of Informal Patent Application
- Interview Summary (PTO-413), Paper No./Mail Date
- 7. X Examiner's Amendment/Comment
- 8. T Examiner's Statement of Reasons for Allowance
- Other .

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Application/Control Number: 10/521,978

Art Unit: 3768

 An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

- Authorization for this examiner's amendment was given in a telephone interview with Paul Teng on 5<sup>th</sup> November 2009.
- 3. The application has been amended as follows:
- 1. A medical image diagnosis apparatus which images a subject by forming a whole image of a subject portion of the subject, displays imaging conditions on the whole image, and allows an operator to set or modify the imaging conditions for imaging a tomographic image, the medical image diagnosis apparatus comprising:
- a first display device for displaying the whole image and the imaging conditions including a frame indicating a scan area and lines indicating imaging positions of tomographic images and image reconstruction positions of the tomographic images;
  - a second display device: [for extracting]
- a display control device configured to extract one or more of the imaging conditions including the frame and the lines and [ displaying ] control the second display device to display the extracted imaging conditions for imaging the tomographic images;[ a display control device for the first display device and the second display device; ] and

an operating device for setting or changing the imaging conditions for imaging the tomographic images, by adjusting the frame and the lines displayed by the second display device.

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10. The medical image diagnosis apparatus according to claim 8, wherein the operating device [can] is configured to extend or contract the rectangular frame in any direction, and move the mark to any position together with the rectangular frame.

- 11. The medical image diagnosis apparatus according to claim 9, wherein the operating device [can] is configured to generate the division lines in the rectangular frame at any position and move the division lines to any position.
- 12. The medical image diagnosis apparatus according to claim 8, wherein the operating device [can] is <u>configured to</u> form a parallelogram by tilting the rectangular frame indicated in the first display device and the second display device, and set the scanner angle in the imaging conditions as the tilt angle of the parallelogram in the first display device and the second display device.
- 13. The medical image diagnosis apparatus according to any one of claims 8 to 12, wherein the operating device is configured to move or copy the rectangular frame, the division lines and the mark [can be moved or copied] from the first display device to the second display device or between the first display device and the second display device in an identical, similar or analogous form.
- 16. A medical image diagnosis apparatus which forms a whole image of a subject portion of a subject and obtains one or more tomographic images under imaging conditions for imaging a tomographic image, the medical image diagnosis apparatus comprising:

a first display device for displaying the whole image of the subject portion and the imaging conditions including a frame indicating a scan area and lines indicating imaging positions of the tomographic images and image reconstruction positions of the tomographic images;

a second display device; [for extracting]

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<u>a display control device configured to extract</u> one or more of the imaging conditions including the frame and the lines and [displaying] <u>control the second display device to display</u> the imaging conditions including the frame and the lines extracted from the first display device for setting the imaging conditions for obtaining the one or more tomographic images; <u>and</u>

an operating device for an operator to selectively set the imaging conditions for imaging the tomographic images, by adjusting the frame and the lines displayed by said second display device, wherein [; and a]

<u>said</u> display control device [for displaying] controls the first display device to <u>display</u>, on the whole image [displayed on the first display device], information indicating positions of said one or more tomographic images to be obtained based on the imaging conditions set with the operating device.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to LAWRENCE N. LARYEA whose telephone number is (571)272-9060. The examiner can normally be reached on 9:30 a.m.-5:30 p.m. EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Long Le can be reached on 571-272-0823. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

LNL

/Eric F Winakur/ Primary Examiner, Art Unit 3768